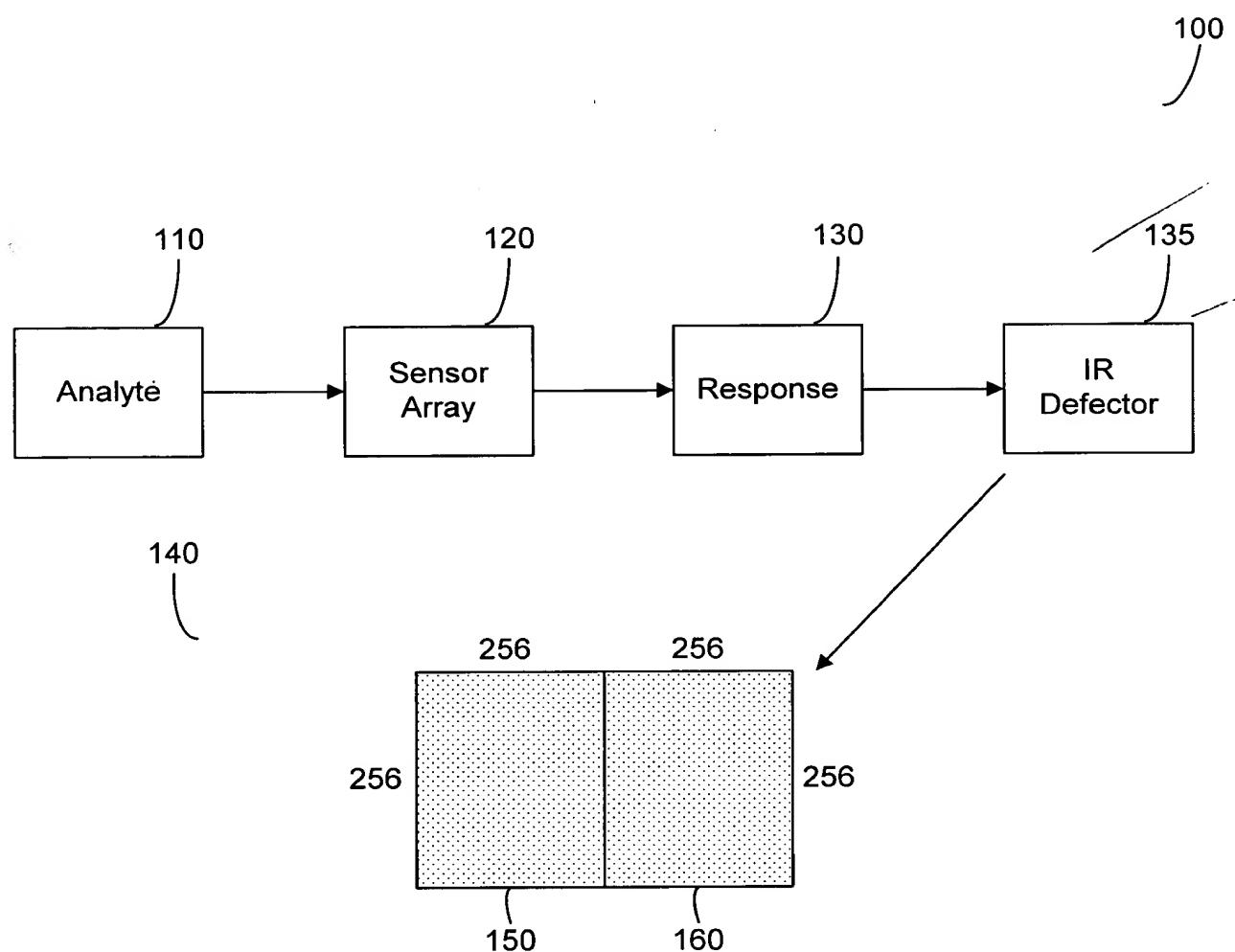


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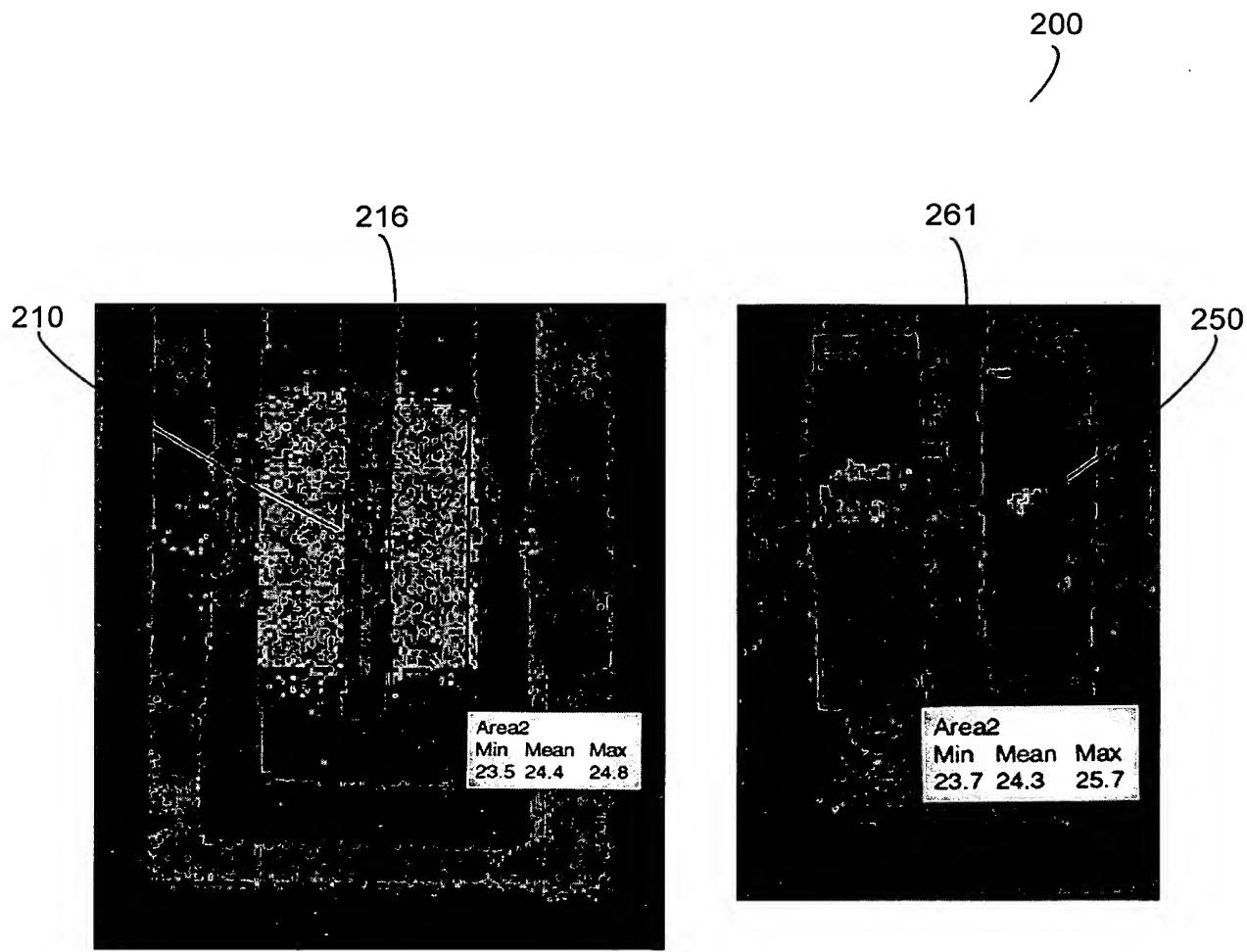
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**FIG. 1**

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Uniform distribution of conducting paths

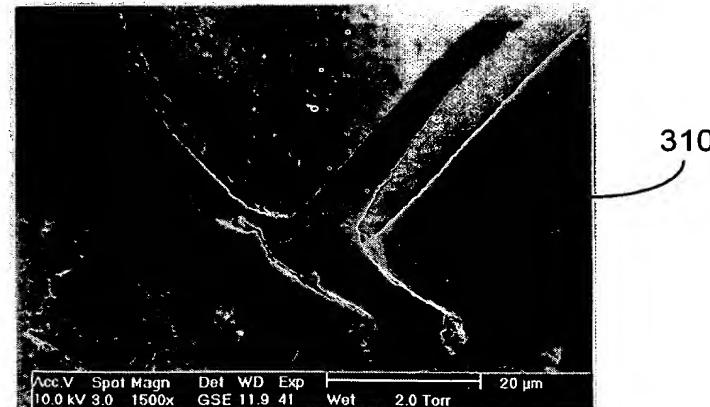
Non-uniform distribution of conducting paths

**FIG. 2**

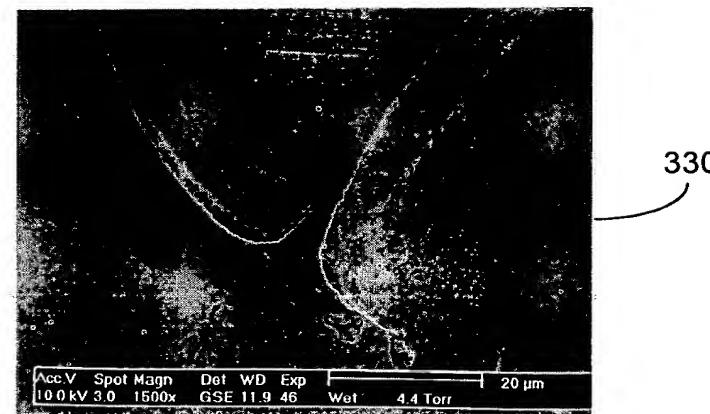
APPROVED	O.G. FIG.	
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300



before exposure to analyte

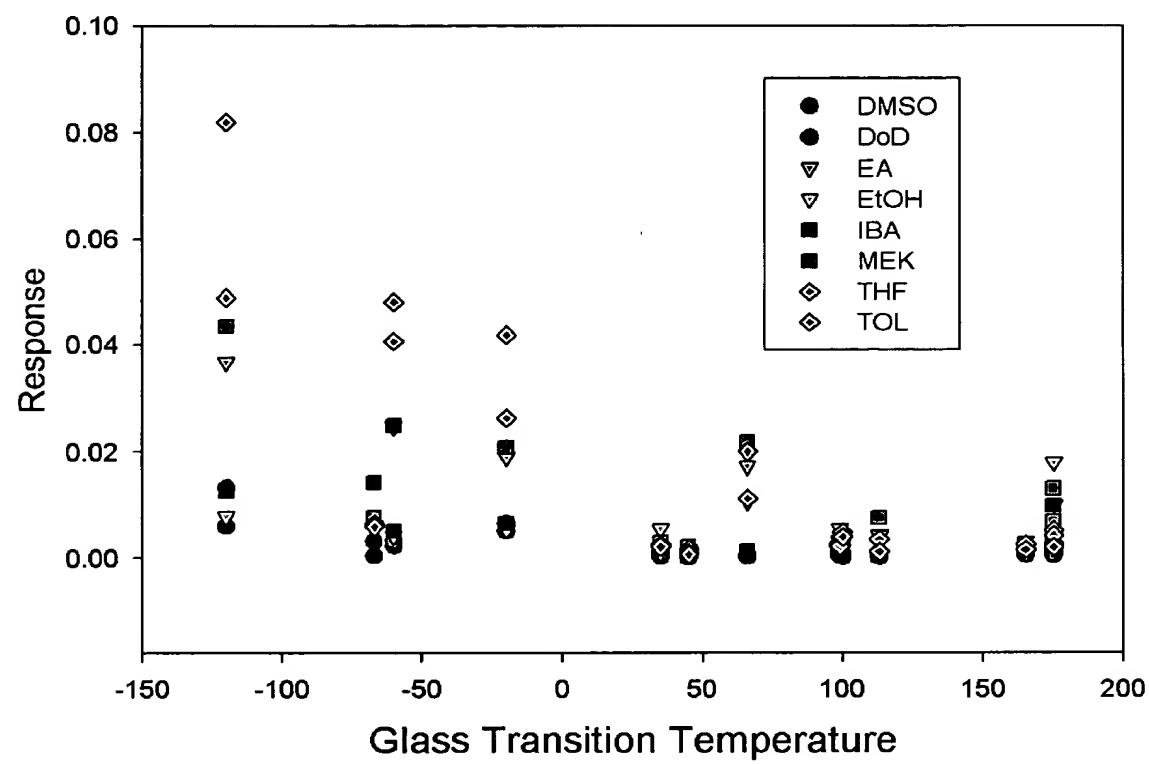


after exposure to analyte

**FIG. 3**

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**FIG. 4**

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500

505  
Start

510  
find the temperature at each pixel

520  
sort the pixels based on  
temperature reading from  
high to low

530  
calculate the cumulative  
sum of temperature  
(starting at high  
temperature end) and plot  
that against the ratio of total  
pixels used in the  
calculation

540  
from the previous plot find  
the ratio of pixel that gives  
50% cumulative sum of  
temperature

550  
use this ratio as an index of  
uniformity, the higher the  
index , the more uniform is  
the temperature distribution

560  
Stop

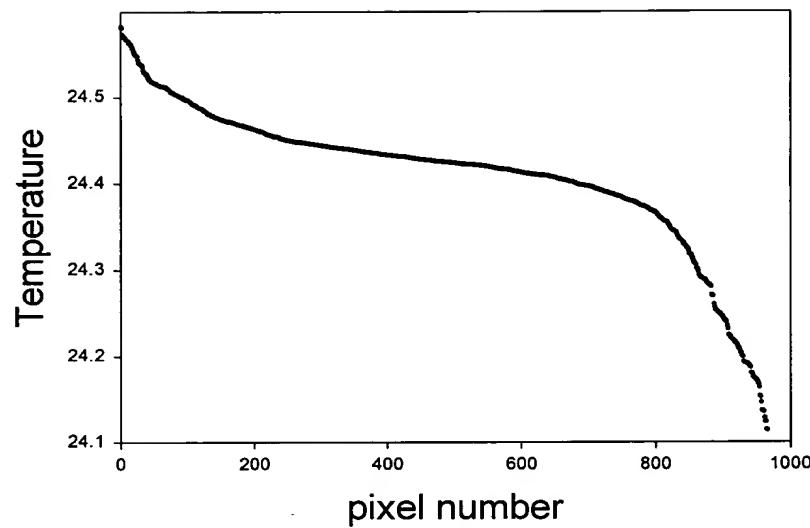
PRINTED ON COMPUTER IN GRENADA  
BY DRAFTSMAN

**FIG. 5**

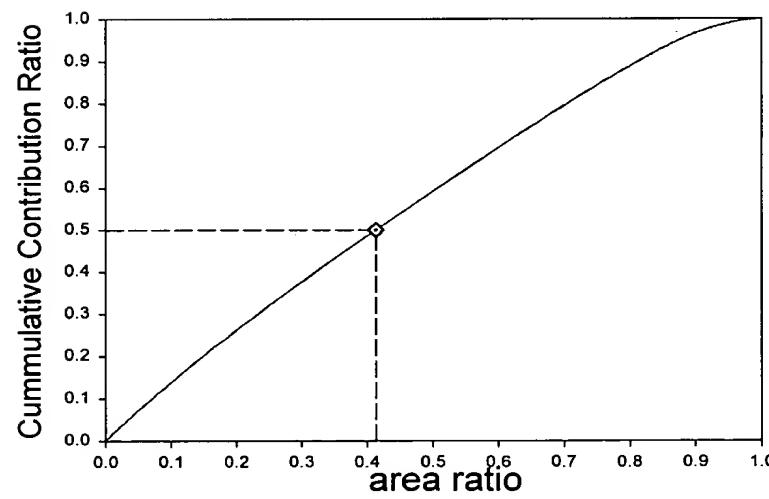
APPROVED	D.G. FIG
BY	CLASS
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600



**FIG. 6A**



**FIG. 6B**

APPROVED	D.G. FIG. 7	
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700

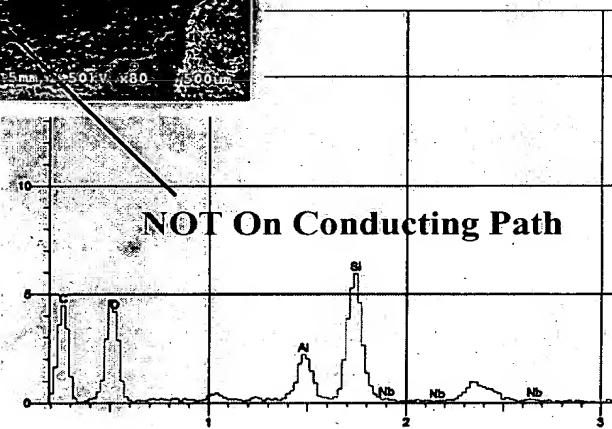
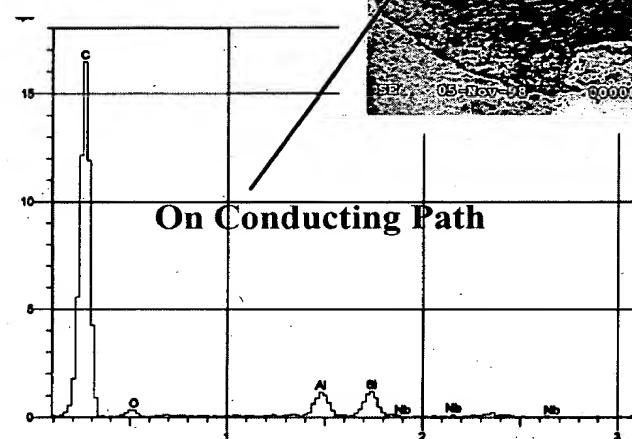
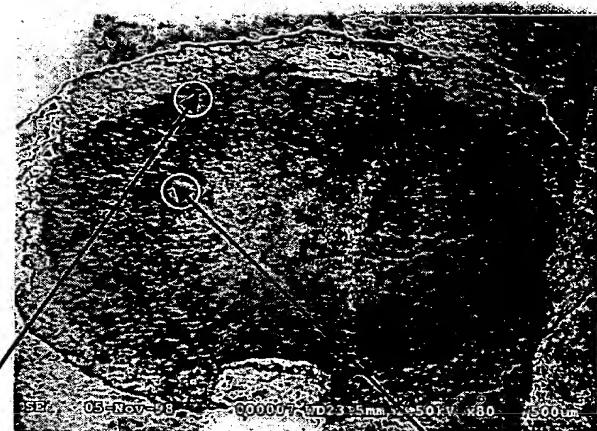
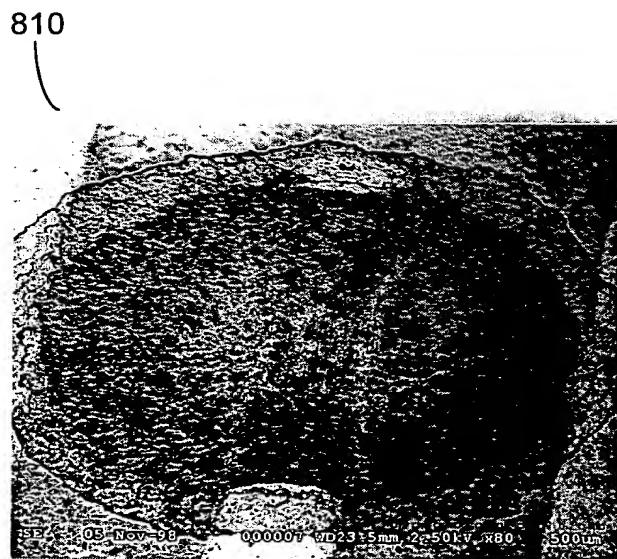


FIG. 7

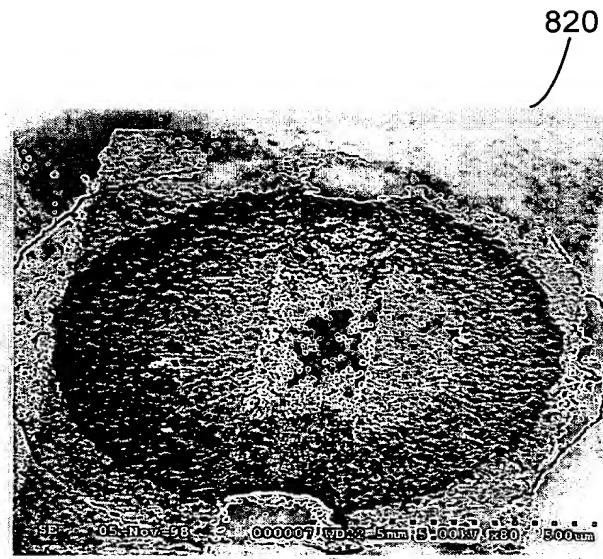
APPROVED	O.G. FIG.	
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800



Low KeV



High KeV

**FIG. 8**